

Form 1449 (Modified)

Information Disclosure Statement By Applicant

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Atty Docket No.: IMM1P029B

Application No.: 09/755,383

Applicant: Schena et al.

Filing Date: 1/5/01

Group: 2613

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U.S. Patent Documents

Examiner Initial		Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
QZ	*	3,919,691	11/11/75	Noll	340	172.5	5/26/71
	*	4,398,889	8/16/83	Lam et al.	434	45	6/8/81
	*	4,477,043	10/16/84	Repperger	244	223	12/15/82
	*	4,546,347	10/8/85	Kirsch	340	710	6/24/83
		4,550,221	10/29/85	Mabusth	178	18	10/7/83
		4,692,756	9/8/87	Clark	340	709	7/5/84
	*	4,775,289	10/4/88	Kazerooni	414	735	9/25/87
	*	4,782,327	11/1/88	Kley et al.	340	365	1/2/85
	*	4,794,384	12/27/88	Jackson	340	710	4/9/87
		4,798,919	1/17/89	Miessler et al.	178	18	3/11/88
	*	4,799,055	1/17/89	Nestler et al.	340	710	4/26/84
	*	4,800,721	1/31/89	Cemenska et al.	60	393	2/13/87
	*	4,811,608	3/14/89	Hilton	73	862.04	11/6/86
	*	4,823,634	4/25/89	Culver	74	471	11/3/87
	*	4,839,838	6/13/89	LaBiche et al.	364	709.11	3/30/87
	*	4,861,269	8/29/89	Meenen, Jr.	434	45	3/30/88
	*	4,868,549	9/19/89	Affinito et al.	340	710	5/18/87
	*	4,935,728	6/19/90	Kley	340	709	11/20/87
		4,949,119	8/14/90	Moncrief et al.	364	578	1/12/89
	*	5,044,956	9/3/91	Behensky	434	45	1/12/89
	*	5,065,145	11/12/91	Purcell	340	706	10/6/89
		5,086,296	2/4/92	Clark	340	709	12/2/88
	*	5,095,303	3/10/92	Clark et al.	340	710	3/27/90
	*	5,103,404	4/7/92	McIntosh	318	568.22	12/20/89
	*	5,107,080	4/21/92	Rosen	200	6	12/1/89
	*	5,107,262	4/21/92	Cadoz et al.	341	22	10/12/89
	*	5,142,931	9/1/92	Menahem	74	471	2/14/91
	*	5,146,566	9/8/92	Hollis, Jr. et al.	395	275	5/29/91
	*	5,185,561	2/9/93	Good et al.	318	432	7/23/91
	*	5,186,629	2/16/93	Rohen	434	114	8/22/91

Examiner: DAVID LEWIS

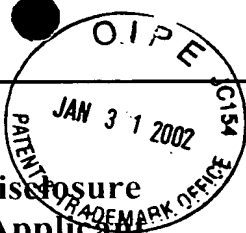
Date Considered: 5/18/02

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Examiner Initial		Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
[Signature]	*	5,193,963	3/16/93	McAfee et al.	414	5	10/31/90
	*	5,220,260	6/15/93	Schuler	318	561	10/24/91
	*	5,223,776	6/29/93	Radke et al.	318	568.1	12/31/90
	*	5,228,356	7/20/93	Chuang	74	471	11/25/91
		5,237,327	8/17/93	Saitoh et al.	341	176	11/14/91
	*	5,264,768	11/23/93	Gregory et al.	318	561	10/6/92
		5,293,158	3/8/94	Soma	345	161	5/5/92
	*	5,296,846	3/22/94	Ledley	345	161	10/5/92
	*	5,296,871	3/22/94	Paley	345	163	7/27/92
	*	5,355,148	10/11/94	Anderson	345	166	1/14/93
	*	5,374,942	12/20/94	Gilligan et al.	345	157	8/12/93
	*	5,379,663	1/10/95	Hara	74	471	11/22/93
	*	5,389,865	2/14/95	Jacobus et al.	318	568.11	12/2/92
	*	5,396,266	3/7/95	Brimhall	345	161	6/8/93
	*	5,397,323	3/14/95	Taylor et al.	606	130	10/30/92
	*	5,398,044	3/14/95	Hill	345	145	12/7/93
	*	5,405,152	4/11/95	Katanics et al.	276	438	6/8/93
	*	5,414,337	5/9/95	Schuler	318	561	6/11/93
	*	5,457,479	10/10/95	Cheng	345	163	6/13/94
	*	5,473,235	12/5/95	Lance et al.	318	561	12/21/93
	*	5,477,237	12/19/95	Parks	345	156	7/14/94
	*	5,491,477	2/13/96	Clark et al.	341	20	9/13/93
	*	5,513,100	4/30/96	Parker et al.	364	167.01	6/10/93
		5,521,336	5/28/96	Buchanan et al.	178	18	5/23/94
	*	5,530,455	6/25/96	Gillick et al.	345	163	8/10/94
	*	5,576,727	11/19/96	Rosenberg et al.	345	179	06/05/95
	*	5,587,937	12/24/96	Massie et al.	364	578	04/25/95
		5,589,826	12/31/96	Armstrong	341	20	3/5/92
[Signature]	*	5,589,854	12/31/96	Tsai	345	161	6/22/95
	*	5,623,582	4/22/97	Rosenberg	395	99	7/14/94

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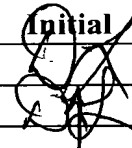
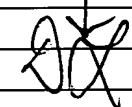
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U.S. Patent Documents

Examiner Initial		Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
	*	5,629,594	5/13/97	Jacobus et al.	318	568.11	10/16/95
		5,642,469	6/24/97	Hannaford et al.	395	99	11/3/94
	*	5,643,087	7/1/97	Marcus et al.	463	38	7/29/94
	*	5,656,901	8/12/97	Kurita	318	436	4/21/95
	*	5,666,138	9/9/97	Culver	345	161	11/22/94
		5,691,747	11/25/97	Amano	345	167	12/19/94
	*	5,691,898	11/25/97	Rosenberg et al.	364	190	3/28/96
	*	5,709,219	1/20/98	Chen et al.	128	782	8/1/96
	*	5,714,978	2/3/98	Yamanaka et al.	345	157	12/5/95
	*	5,721,566	2/24/98	Rosenberg et al.	345	161	6/9/95
	*	5,731,804	03/24/98	Rosenberg	345	156	01/18/95
	*	5,734,373	3/31/98	Rosenberg et al.	345	161	12/1/95
	*	5,736,978	4/7/98	Hasser et al.	345	173	5/26/95
	*	5,742,278	4/21/98	Chen et al.	345	156	11/1/95
	*	5,754,023	5/19/98	Rosten et al.	318	561	10/22/96
	*	5,755,577	5/26/98	Gillio	434	262	7/11/96
		5,760,764	6/2/98	Martinelli	345	160	12/13/95
	*	5,767,839	6/16/98	Rosenberg	345	161	3/3/95
	*	5,769,640	6/23/98	Jacobus et al.	434	262	8/10/95
	*	5,771,037	6/23/98	Jackson	345	157	7/24/95
	*	5,781,172	7/14/98	Engel et al.	345	164	6/16/97
		5,784,052	7/21/98	Keyson	345	167	3/12/96
	*	5,790,108	8/4/98	Salcudean et al.	345	184	10/23/92
		5,802,353	9/1/98	Avila et al.	395	500	6/12/96
	*	5,805,140	9/8/98	Rosenberg et al.	345	161	11/17/95
		5,808,603	9/15/98	Chen	345	157	2/6/97
		5,821,921	10/13/98	Osborn et al.	345	157	8/9/96
	*	5,825,308	10/20/98	Rosenberg	341	20	11/26/96
	*	5,828,197	10/27/98	Martin et al.	318	567	10/25/96
		5,828,363	10/27/98	Yaniger et al.	345	156	8/18/97

Examiner: DAVID LEWIS Date Considered: 5/10/02

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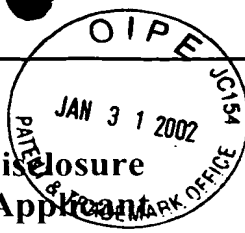
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U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
	5,841,423	11/24/98	Carroll, Jr. et al.	345	168	12/26/95
	5,841,428	11/24/98	Jaeger et al.	345	184	9/20/96
	* 5,844,392	12/1/98	Peurach et al.	318	568.17	5/21/97
	5,877,750	3/2/99	Hanson	345	173	9/17/96
	5,887,995	3/30/99	Holehan	400	479.1	9/23/97
	* 5,889,670	3/30/99	Schuler et al.	364	186	1/11/96
	5,914,705	6/22/99	Johnson et al.	345	163	2/9/96
	5,943,044	8/24/99	Martinelli et al.	345	174	5/15/97
	5,956,016	9/21/99	Kuenzner et al.	345	156	3/19/97
	5,973,689	10/26/99	Gallery	345	339	10/29/97
	* 5,990,869	11/23/99	Kubica et al.	345	163	2/19/97
	6,004,134	12/21/99	Marcus et al.	434	45	5/19/94
	6,078,308	6/20/00	Rosenberg et al.	345	145	6/18/97
	6,088,019	7/11/00	Rosenberg	345	156	6/23/98
	6,100,874	8/8/00	Schena et al.	345	157	6/24/97
	6,128,006	10/3/00	Rosenberg et al.	345	163	3/26/98
	6,154,201	11/28/00	Levin et al.	345	184	10/26/98
	6,166,723	12/26/00	Schena et al.	345	184	11/7/97
	6,198,206	3/6/01	Saarmaa et al.	310	340	3/20/98
	6,219,032	4/17/01	Rosenberg et al.	345	157	12/13/95
	6,225,976	5/1/01	Yates et al.	345	156	10/30/98
	6,243,078	6/5/01	Rosenberg	345	161	2/28/99
	6,256,011	7/3/01	Culver	345	157	12/1/98

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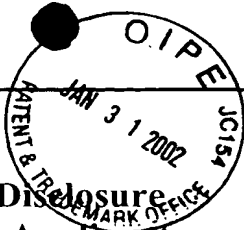
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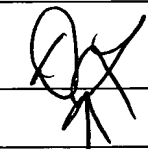
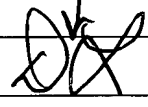
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Examiner Initial	Author, Title, Date, Place (e.g. Journal) of Publication
	* Hayward, V. et al., "Design and Multi-Objective Optimization of a Linkage for a Haptic Interface," Advances in Robot Kinematics and Computationed Geometry, Kluwer Academic Publishers, 1994, pp. 359-368.
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	* Payette, J. et al., "Evaluation of a Force Feedback (Haptic) Computer Pointing Device in Zero Gravity," DSC. Vol. 58 Proc. of the ASME Dynamics Systems and Control Division, ASME 1996, pp. 547-553.
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	* Schmult, B. et al., "Application Areas for a Force-Feedback Joystick," DSC-Vol. 49, Advances in Robotics, Mechatronics, and Haptic Interfaces, ASME 1993, pp. 47-54.
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	* Iwata, H. "Artificial Reality with Force-feedback," Computer Graphics, Vol. 24, No. 4, 1990, pp. 165-170.
	* Minsky, M. et al., "Feeling and Seeing: Issues in Force Display," ACM 089791-351-5, 1990, pp. 235-245, 270.
	* Hannaford, B. et al., "Force-Feedback Cursor Control," NASA Tech Brief, Vol. 13, No. 11, Item #21, 1989, pp. 1-4.

Examiner:

David Lewis

Date Considered:

3/18/02

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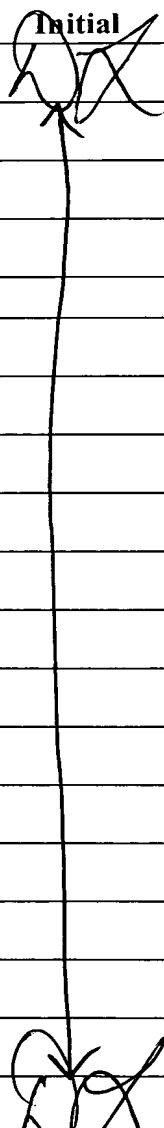
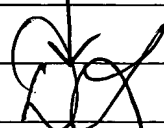
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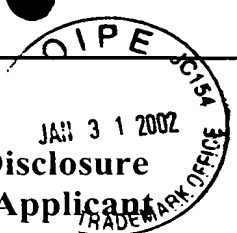
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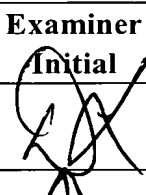

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	Filing Date: 1/5/01	Group: 2673



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